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\*\* TRANSMIT CONFIRMATION REPORT \*\*

Journal No. : 002  
Receiver : 9421852  
Transmitter : DIV OIL GAS & MINING  
Date : Mar 1,91 11:15  
Document : 08 pages  
Time : 03'55"  
Mode : G3 NORMAL  
Result : OK

m/053/005

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Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

Date: MARCH 1, 1991

Number of Pages Including This Cover Sheet: 8

TO: ELLIOTT LIPS, JBR CONSULTANTS

Phone: (Fax) 942-1852

FROM: D. WAYNE HEDBERG

Minerals Reclamation and Development Program

Phone: (801) 538-5340

SUBJECT: DWR COMMENTS ON TENNECO REVISION  
AND DOGM RESPONSE TO SAME.

REMARKS: PURSUANT TO YOUR TELEPHONE REQUEST (3/1/91),  
I'M SENDING THE ABOVE REFERENCED DOCUMENTS.  
PLEASE CALL ME, OR HOLLAND SHEPHERD IF YOU  
HAVE QUESTIONS WITH THESE LETTERS.  
P.S. - I'VE ALSO ENCLOSED (SENDING) COPY OF RDCC  
APPROVAL FOR YOUR FILES.

Should you encounter any problems with this copy, or do not receive  
all the pages, please call

MN9/61





Norman H. Bangerter

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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

March 1, 1991

Mr. Bruce L. Bonebrake  
Division Wildlife Resources  
Southern Region  
P. O. Box 606  
Cedar City, Utah 84721-0606

Dear Mr. Bonebrake:

Re: Response to DWR Review Comments, Tenneco Amendments, Goldstrike Mine, M/053/005, Washington County, Utah

Thank you for your January 30, 1991, comments concerning the Tenneco MRP amendment. Based on your comments, the Division will recommend that Tenneco incorporate the following changes into their mining and reclamation plan (MRP):

1. Tenneco should add the following species into their reclamation seed mix: Intermediate wheatgrass, Lewis flax, Gooseberryleaf and/or scarlet globemallow, Bottlebrush squirreltail, Luna pubescent wheatgrass, Wyoming big sagebrush, and White-stemmed rubber rabbitbrush.
2. Tenneco should change the time of planting in the MRP from "sometime after October 1st", to a period between November and January.
3. The reclaimed areas should remain fenced during the time period that plants are becoming reestablished.

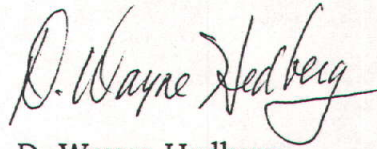
On page 24 of the mine plan, commitments are provided to keep open solution ditches covered to minimize/prevent wildlife mortalities. Unfortunately, the Division cannot support the idea of deep ripping topsoil and waste at this particular site. Given the small amount of topsoil available, the process would dilute the beneficial effect of topsoil application too much. Also, because the operation is experiencing a topsoil deficit, areas of the site will be topsoiled with 6-8 inches of material; 12 inches is preferable, but unfortunately, unfeasible at this site.



Page 2  
Mr. Bruce Bonebrake  
Tenneco Comments  
March 1, 1991

Thank you again for your input. We look forward to working with you on this and other mine projects in the future.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg". The signature is written in dark ink and is positioned above the printed name.

D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

jb  
cc: Ken Kluksdahl, Tenneco  
Elliott Lips, JBR  
Lowell Braxton  
Holland Shepherd  
MNM053005.4



February 12, 1991

TO: Wayne Hedberg, Permit Supervisor

FROM: Holland Shepherd, Reclamation Specialist *HS*

RE: DWR Comments on Tenneco Plan, Tenneco Minerals Company,  
M/053/005, Washington County, Utah

I've reviewed the attached Wildlife Resources letter. The following are comments based on the review:

1. The operator has committed to cover cyanide solution ditches in the MRP, page 24.
2. The comment on topsoiling and ripping, we cannot concur with. The operator has been approved, already, for soil depths of 6 and 8 inches on portions of the site. We have asked the operator to topsoil with 12 inches over the proposed waste and leach areas. The operator will be facing a deficit regarding topsoil application, so will not be able to meet a 12 inch minimum requirement.

The operator has already committed to a 1 foot ripping scenario prior to topsoiling and 1 foot following topsoil application. We have agreed to this. I don't think ripping both topsoil and waste, together, to a depth of 2 - 4 feet is the best reclamation procedure here. It would dilute the beneficial effect of the topsoil too much, given the small amounts to be used at reclamation.

3. We could recommend that the operator incorporate some of the species DWR has listed, which are not already on the list. I have placed a circle next to those species.

I think the planting timeframe DWR advises is better than what was proposed by Tenneco. Tenneco's planting window falls sometime after October 1st. DWR advised planting between November and January.

DWR also advises keeping the area fenced while plants are being established. I saw nothing in the permit committing to do this. I think it should be incorporated into the plan. Livestock will be particularly damaging to new growth on the site.

jb  
Attachment  
M053005.3





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Timothy H. Provan  
Division Director

Southern Region  
622 North Main Street  
P.O. Box 606  
Cedar City, Utah 84721-0606  
801-586-2455

DOGM  
MINERALS PROGRAM  
FILE COPY

RECEIVED  
FEB 01 1991

DIVISION OF  
OIL, GAS & MINING

January 30, 1991

D. Wayne Hedburg  
Mined Land Reclamation Program  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Dear Mr. Hedburg:

After reviewing the revised plan of operations for the Tenneco Goldstrike Project, UDWR has the following concerns and suggestions:

To aid in eliminating animal losses, cyanide solution ditches should be covered to prevent animals from drinking solution waters.

After consultation with our plant lab in Ephraim, we suggest the following procedures for reseeding during the reclamation process:

1. Topsoil needs to be at least 12 inches in depth to adequately support seeds. The area should be ripped 2-4 feet deep to mix topsoil and rock. This process would break up compacted soil catchment basins, increase water filtration and water holding capacity, improve rooting and create microhabitat and climates for germination, establishment and reproduction.
2. Species recommended for your specific site that have the potential to grow well from direct seeding include:

Palmer penstemon ✓  
Intermediate wheatgrass •  
Lewis flax •  
Gooseberry leaf and/or scarlet globemallow •  
Yellow sweetclover ✓  
Bottlebrush squirreltail •  
Desert bitterbrush ✓  
Luna pubescent wheatgrass •

As many of these species as possible should be incorporated into a seed mixture at an amount no less than 15 lbs. per acre. Additional adaptive species may be used depending on availability of seed.



Mr. D. Wayne Hedburg  
January 30, 1991  
Page 2

3. The following shrub species can be successfully transplanted and should do well on the area.

[ Wyoming big sagebrush •  
White stemmed rubber rabbitbrush • ]

4. All seeding should occur November-January, or prior to the summer storms in June and July.
5. The area should be fenced to keep livestock out for at least two growing seasons. Care needs to be taken to insure that the area is not damaged once the fence is removed, since the area will probably have better quality forage than adjoining areas.

Sincerely,

*Bruce L. Bonebrake*

Bruce L. Bonebrake  
Habitat Program Manager

*F. Clapp Jensen*  
F. Clapp Jensen  
Regional Supervisor

BLB/FCJ/vt

cc: David F. Everett, BLM  
Carolyn Wright  
Catherine Quinn, SLO



WJ053/005

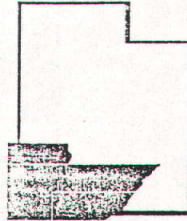
# Five County Association of Governments

FEB 25 1991

906 North 1400 West  
St. George, Utah 84770

FAX (801) 673-3540

DOGM  
MINERALS PROGRAM  
FILE COPY



Post Office Box 1550  
St. George, Utah 84771

(801) 673-3548

SOUTHWEST UTAH

## AREAWIDE CLEARINGHOUSE A-95 REVIEW

Type of Action: Pre-Application \_\_\_\_\_ Notification of Intent X Application \_\_\_\_\_  
Notice of Federal Action \_\_\_\_\_

Receipt Date 1-11-91 SAI Number UT910110-010 ACH Number \_\_\_\_\_

Applicant Identification, Address Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center - Suite 350  
Salt Lake City, UT 84180-1203

### Applicant's Project

Title: REVISED NOTICE OF INTENTION TO COMMENCE  
MINING OPERATIONS FOR THE TENNECO GOLDSTRIKE PROJECT

Description: Addition of 4 new open pits and the enlargement of the padre pit, a new waste dump in Quail Canyon (effectively damming the drainage), expansion of HEAP Leach Pad #2 onto the new waste dump/fill, one new process solution pond and enlargement of one existing pond, minor alterations to the siting of existing structures and relocation of facilities within the mine area to accommodate new pit development.

### Funding

N/A

Federal	\$ _____
Supplemental	_____
State	_____
Local	_____
Other	_____
TOTAL	\$ _____

Federal Funding Department and Agency

## AREAWIDE CLEARINGHOUSE COMMENTS ON PROPOSAL FOR FEDERAL AID

Staff review completed (date) 1-11-91  
Screening Committee review completed (date) 2-20-91  
Executive Board Review Completed (date) \_\_\_\_\_  
Referred to originator for additional information (date) \_\_\_\_\_

- ☒ Recommend Approval X Comments (see reverse side of page) X  
☐ Conditionally approved as follows (see reverse side of page) \_\_\_\_\_  
☐ Recommend Disapproval \_\_\_\_\_ Comments (see reverse side of page) \_\_\_\_\_

☒ The project described above ( X ) does ( ) does not conform with the policy or planning of the multijurisdictional area it directly impacts. Additional information ( ) is ( X ) is not needed.

☐ We also serve notice that all requirements of the Project Notification and Review System for this multijurisdictional area have been met. Therefore, attach this letter to your application and forward to the federal funding agency.

☐ If this project will be a renewal or continuation grant, please submit your application next year to this area-wide clearinghouse for re-review 30 days prior to submission to federal funding agency.

If any Clearinghouse Comments go unresolved, Federal law requires the Applicant to attach a copy of all negative comments to the project application and forward them both to the Federal Funding Agency(ies).

☐ We would anticipate reviewing final project application 30 days prior to submission for funding.

Authorizing Official

2-21-91

Copy of review <sup>Date</sup> sent to applicant.

BEAVER

GARFIELD

IRON

KANE

WASHINGTON



## AREAWIDE CLEARINGHOUSE COMMENTS

The Division of Oil, Gas and Mining has received an application from Tenneco Minerals to expand the surface disturbance at the Gold-strike Mine in Washington County. The permit would allow the development of four new pits and associated developments. An additional 40 acres would be disturbed. The Washington County Commission has supported the Tenneco operation as an important addition to the regional economy. As long as all appropriate federal and state permits are obtained and complied with, the county would support the proposed enlargement.  
(Ken Sizemore)